TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2017-07-01-02 **Date: 04-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-02-04
Sample Type/Size	:	Solid concrete blocks of size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	01-07-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	101	203	8201	15.320	1868.0	1924.4	Not less than 1800Kg/m^3
2	402	100	203	8161	16.200	1985.1		
3	402	103	201	8323	15.980	1920.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	18.320	17.120	7.01	7.37	Shall not be more than 10% by mass
2	17.770	16.550	7.37		
3	18.120	16.820	7.73		

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Lab ID

Sample ID No : CP-2017-07-01-02 **Date: 04-07-17**

: 2017-07-01-02-04

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	101	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	100	202	
3	402	100	201	
4	400	102	201	
5	403	102	202	
6	401	100	203	
7	400	100	202	
8	400	101	201	
9	401	101	201	
10	401	103	200	
11	402	102	200	
12	402	101	201	
13	400	102	200	
14	400	103	200	
15	401	100	201	
16	401	101	201	
17	401	102	200	
18	400	103	200	
19	402	100	201	
20	401	100	202	
Average of 20	401	101	201	

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Lab ID

Sample ID No : CP-2017-07-01-02 **Date: 04-07-17**

: 2017-07-01-02-04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	101	40501	221.5	5.5	5.9
2	400	100	40000	230.4	5.8	
3	402	100	40200	233.1	5.8	
4	400	102	40800	243.5	6.0	
5	403	102	41106	265.3	6.5	
6	401	100	40100	244.9	6.1	
7	400	100	40000	243.2	6.1	
8	400	101	40400	233.9	5.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-01-02** **Date: 04-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-02-02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	232	232	4.6	95.4	90-100
3	10 mm	2100	2332	46.6	53.4	25-55
4	4.75 mm	2435	4767	95.3	4.7	0-10
5	Pan	233	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-01-02** **Date: 04-07-17**

Sample ID No : 2017-07-01-02-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|

TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2017-07-01-02 **Date: 04-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-02-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	01-07-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	83	83	8.3	91.7	90-100	90-100	90-100	95-100
3	2.36 mm	133	216	21.6	78.4	60-95	75-100	85-100	95-100
4	1.18 mm	164	380	38.0	62.0	30-70	55-90	75-100	90-100
5	600 micron	176	556	55.6	44.4	15-34	35-59	60-79	80-100
6	300 micron	188	744	74.4	25.6	5-20	8-30	12-40	15-50
7	150 micron	173	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-07-01-02** **Date: 04-07-17**

Sample ID No : 2017-07-01-02-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-07-01-02 **Date: 04-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-07-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.6	–
2	Finess by Air permeablity method (m^2/kg, Min)	278.5	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-07-01-02 **Date: 31-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-07-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	53.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-01-02** **Date: 04-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-01-02-02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5344	5598	37.3	62.7	30-70
4	10 mm	4533	10131	67.5	32.5	10-35
5	4.75 mm	4234	14365	95.8	4.2	0-5
6	Pan	635	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-01-02** **Date: 04-07-17**

Sample ID No : 2017-07-01-02-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.55	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.18	–

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Prepared by
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2017-07-25-01	**Date: 26-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.	
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	25-07-17	
Sample ID No	:	2017-07-25-01-01	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of test	:	25-07-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	475	478
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.0	4.4
4	Average percentage	%	4.7	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

Lab ID

Sample ID No : CP-RW-2017-07-25-01 **Date: 26-07-17**

: 2017-07-25-01-01

Weight of Sample(gm) : 475

AFTER EXTRACTION(Trail-1)

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	2	2	0.42	99.6	90-100
19	45	47	9.89	90.1	71-95
13.2	104	151	31.79	68.2	56-80
4.75	56	207	43.58	56.4	38-54
2.36	78	285	60.00	40.0	28-42
0.3	97	382	80.42	19.6	7-21
0.075	66	448	94.32	5.7	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	5	5	1.05	99.0	90-100
19	48	53	11.09	88.9	71-95
13.2	67	120	25.10	74.9	56-80
4.75	110	230	48.12	51.9	38-54
2.36	63	293	61.30	38.7	28-42
0.3	92	385	80.54	19.5	7-21
0.075	68	453	94.77	5.2	2-8

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Quality Manager

Prepared By:
Harshitha

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-07-21-02** **Date: 24-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-07-17
Sample ID No	:	2017-07-21-02-01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	22-07-17
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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End of Report

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2017-07-21-02** **Date: 25-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-07-17
Sample ID No	:	2017-07-21-02-01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	22-07-17

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	14.2	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	12.8		
Strength	Aggregate Impact Value	22.4	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.65	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.24	Maximum 2%	IS:2386 Part III

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Quallity Manager

Prepared By:
Harshitha

Lab ID : CP-RW-2017-07-27-01 **Date: 29-07-17**

Sample ID : 2017-07-27-01-01

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	90-100
9.5	97	99	21.1	78.9	70-88
4.75	115	214	45.5	54.5	53-71
2.36	45	259	55.1	44.9	42-58
1.18	29	288	61.3	38.7	34-48
0.6	11	299	63.6	36.4	26-38
0.3	54	353	75.1	24.9	18-28
0.15	24	377	80.2	19.8	12-20
0.075	59	436	92.8	7.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	77	81	17.2	82.8	70-88
4.75	122	203	43.1	56.9	53-71
2.36	56	259	55.0	45.0	42-58
1.18	31	290	61.6	38.4	34-48
0.6	9	299	63.5	36.5	26-38
0.3	42	341	72.4	27.6	18-28
0.15	40	381	80.9	19.1	12-20
0.075	54	435	92.4	7.6	4-10

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Prepared By:
Harshitha

TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-07-13-02** **Date: 15-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-17
Sample ID No	:	2017-07-13-02-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	13-07-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	304.2	304.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	229.9	229.9
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.3
5	Aggregate impact value	(B/A)*100	24.3	24.3
6	Aggregate impact value (Mean of two tests)	Pecentage	24.3	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2017-07-13-02 **Date: 15-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-17
Sample ID No	:	2017-07-13-02-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	13-07-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	16.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	14.6%	
Combined Flakiness and Elongation Index for WMM	31.5%	

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-07-18-03** **Date: 20-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-17
Sample ID No	:	2017-07-18-03-01
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of test	:	18-07-17
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	172	172	3.44	96.56	90-100
19	1013	1185	23.70	76.30	71-95
13.2	520	1705	34.10	65.90	56-80
4.75	1150	2855	57.10	42.90	38-54
2.36	710	3565	71.30	28.70	28-42
0.3	1094	4659	93.18	6.82	7-21
0.075	272	4931	98.62	1.38	2-8
PAN	69	5000	0.00	0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-07-18-03** **Date: 21-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-17
Sample ID No	:	2017-07-18-03-01
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of test	:	18-07-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-07-03-02** **Date: 04-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-17
Sample ID No	:	2017-07-03-02-01
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	03-07-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	550	690	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	570	694	19.5%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2017-07-03-02	**Date: 07-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.	
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.	
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	03-07-17	
Sample ID No	:	2017-07-03-02-02(b)	
Sample Type /Size	:	Precast Cover Slab (250mm thick)	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	03/07/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.50	250.48	2.816	4476	85.9	19.2	17.8	22.3
2	Cover Slab-2	75.46	250.44	2.672	4471	86.3	19.3	17.9	22.4
3	Cover Slab-3	75.48	250.52	2.898	4474	84.8	19.0	17.6	22.0

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-07-14-01** **Date: 15-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-07-17
Sample ID No	:	2017-07-14-01-01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	14-07-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	68	60 to 70
2	Softening Point, °C	46	Min. 40°C
3	Ductility, cm	79	Min. 75cm
4	Flash point, °C	243	Min. 220°C
	Fire point, °C	249	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-12-04 **Date: 15/07/2017**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.

Agency : Technical Manager (west), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/87/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-07-17

Sample ID No : 2017-07-12-04-01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	08/07/2017	15/07/2017	150.17 X 150.12 X 150.13	22544	8.278	392.3	17.4	17.5
2	Drain Concrete	M20	08/07/2017	15/07/2017	150.22 X 150.24 X 150.29	22569	8.413	404.0	17.9	
3	Drain Concrete	M20	08/07/2017	15/07/2017	150.27 X 150.15 X 150.18	22563	8.353	390.3	17.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-07-12-04**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-17
Sample ID No	:	2017-07-12-04-02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/08/2017

Date: 05/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	08/07/2017	05/08/2017	150.19 X 150.16 X 150.21	22553	8.322	511.9	22.7	22.5
2	Drain Concrete	M20	08/07/2017	05/08/2017	150.20 X 150.21 X 150.17	22562	8.289	498.6	22.1	
3	Drain Concrete	M20	08/07/2017	05/08/2017	150.20 X 150.17 X 150.21	22556	8.245	509.8	22.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-17-04 **Date: 18/07/2017**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.

Agency : Technical Manager (west), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/87/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-17

Sample ID No : 2017-07-17-04-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/07/2017	18/07/2017	150.20 X 150.24 X 150.28	22566	8.365	284.3	12.6	12.6
2	PCC	M15	11/07/2017	18/07/2017	150.11 X 150.19 X 150.13	22545	8.231	290.8	12.9	
3	PCC	M15	11/07/2017	18/07/2017	150.10 X 150.14 X 150.22	22536	8.289	277.2	12.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/08/2017

ID	:	CP-2017-07-17-04
tomer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
dress	:	Yelahanka Sub Division, BBMP, Bangalore.
ject Name	:	Asphalting and Improvements to roads at Maruthinagara 1st main road from (ch.450 to 892.00mtr) in ward no:01 of Yelahanka Sub Division.
ency	:	Technical Manager (west), KRIDL, BBMP, Bangalore.
stomer's Reference	:	BBMP/EE(YNK.D)/W.O/87/2017-18
rce of Sample	:	Sample supplied by Agency
nple Condition	:	Satisfactory
te of Receipt	:	17-07-17
nple ID No	:	2017-07-17-04-02
stomer ID	:	PCC
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M15 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	08/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/07/2017	08/08/2017	150.23 X 150.11 X 150.19	22551	8.275	396.9	17.6	17.3
2	PCC	M15	11/07/2017	08/08/2017	150.14 X 150.18 X 150.12	22548	8.281	381.1	16.9	
3	PCC	M15	11/07/2017	08/08/2017	150.18 X 150.19 X 150.23	22556	8.309	390.2	17.3	

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